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Clemson Commencement Program, December 2011

Clemson University

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Clemson University Graduation Exercises



CONGRATULATORY APPLAUSE

You are requested to refrain from loud expressions of pleasure for individual graduates.
Such expressions frequently detract from the recognition due the next graduate in line.
Your cooperation is respectfully requested.

GRADUATION

THURSDAY, DECEMBER 22, 2011

11:00 A.M.

LITTLEJOHN COLISEUM

ORDER OF CEREMONIES

(Please remain standing for the processional, posting of colors, and invocation.)

POSTING OF COLORS

Pershing Rifles

Jonathan Headley

Richard Moore

Marjorie Lutz

Katherine Strathman

David McAlpine

INVOCATION

Danyelle Sharmaine Davis, Student Representative

INTRODUCTION OF TRUSTEES

President James F Barker

RECOGNITION OF THE DEANS OF THE COLLEGES

Vice President for Academic Affairs and Provost

Doris R Helms

CONFERRING OF HONORARY DEGREE

President James F Barker

REFLECTIONS

John Yancey McGill

CONFERRING OF DEGREES AND DELIVERY OF DIPLOMAS

President James F Barker

RECOGNITION AND PRESENTATION OF AWARDS

Class of '39 Award for Excellence

Faculty Scholarship Award

Ms. Susan Cumbie, Organist/Soloist

Clemson University SINGERS

Dr. Robert P Green, Jr., University Marshal

CEREMONIAL MUSIC

Prelude

Clemson University SINGERS

At the Round Earth's Imagined Corners —

Williametta Spencer

There Will Be Rest — Frank Tichelli

O Magnum Mysterium — Morten Lauridsen

Processional

Various Marches and Processionals

Ms. Susan Cumbie, Organist

National Anthem

Words by Francis Scott Key

Music attributed to John Stafford Smith

Ms. Susan Cumbie, Soloist

Musical Interludes

Canon in D — J Pachobel

Ms. Susan Cumbie, Organist

Veni, veni Emmanuel — arranged by Aaron Lundy

Clemson University SINGERS

Closing

Clemson University Alma Mater

Words by A C Corcoran, Class of '19

Music by Robert E Farmer, Class of '49

and Hugh H McGarity

Arranged by David A Conley, Class of '92

Clemson University SINGERS

Recessional

Hornpipe from the D Major Suite

Water Music — G F Handel

Ms. Susan Cumbie, Organist

Clemson University SINGERS

Dr. Justin W Durham, Conductor

Chelsea Atkins
Hanna Aucoin
Alex Austin
Andrew Avent
Alex Baldwin
Molly Blackburn
Chris Covey
Kat Clark
Lauren Cook
Reid Cruse
Ethan Darnell
Elizabeth Devitt
Erika Dodgins
Samantha Fassett
Austin Finley
Kaylee Gonzalez
Katie Gray
Adriane Hale

James Haley
Jordan Harriz
Nathan Heavner
Lauren Hock
Courtney Jackson
James Jernigan
Marlon Johnson
Robert Jones
Daniel Kirwan
Beth Anne Lamar
Joy Laster
Grace Lewallen
Thomas Looper
Katherine Matthews
Jessica Merino
Laura Morton
Emily Murphy
Carly Oliver

Rhett Park
Whitney Rhoad
Kitty Rice
Alex Rogers
Andy Runnion
Brittany Sedziol
Caleb Senn
Racquel Shackelford
Emily Smith
John Stiffey
Caleb Suggs
Janie Thomas
Mary Scott Valentine
Emmy Watt
Kelli Wessinger
James Williams
Lydia Wright
William Yowell

BOARD OF TRUSTEES

David H Wilkins, Chairman Greenville
Robert L Peeler, Vice Chairman..... Lexington
Bill L Amick..... Batesburg-Leesville
Leon J Hendrix, Jr..... Kiawah Island
Ronald D Lee..... Aiken
Louis B Lynn..... Columbia
Patricia H McAbee..... Greenville
John N McCarter, Jr. Columbia
E Smyth McKissick III Greenville
Thomas B McTeer, Jr. Columbia
William C Smith, Jr..... Columbia
Joseph D Swann..... Greenville
Kim A Wilkerson..... Columbia

Trustees Emeriti

Louis P Batson, Jr..... Greenville
J J Britton Sumter
Fletcher C Derrick, Jr..... Charleston
Lawrence M Gressette, Jr. Columbia
Harold D Kingsmore Clemson
D Leslie Tindal Pinewood
Allen P Wood Florence

Executive Secretary to the Board of Trustees

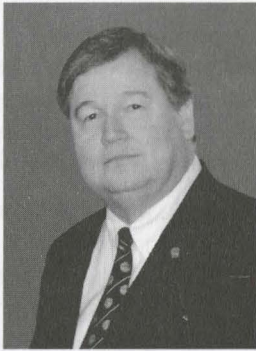
Angie Leidinger

ADMINISTRATIVE OFFICERS

James F Barker President
Doris R Helms Vice President for
Academic Affairs and Provost
A Neill Cameron, Jr. Vice President for Advancement
Brett A Dalton Chief Financial Officer
Gail DiSabatino Vice President for Student Affairs
John W Kelly... Vice President for Economic Development
Terry Don Phillips..... Director of Athletics
Gerald Sonnenfeld..... Vice President for Research
Erin E Swann Interim General Counsel
Leon E Wiles Chief Diversity Officer

HONORARY DEGREE

John Yancey McGill *Doctorate of Humanities*



Senator John Yancey McGill committed to a course of public service 35 years ago that would take him from the local town council to South Carolina's Senate, where he has served since 1989.

Dedicated and sensitive to serving all people in the District 32 counties of Florence, Georgetown, Horry and Williamsburg, Senator McGill has worked to lower taxes, increase jobs, build and improve roads, ensure quality education and quality health care, and preserve our natural resources. His current Senate committee assignments include Agriculture and Natural Resources; Ethics; Finance; Fish, Game and Forestry; Invitations; and Transportation. He also serves

on the Executive Committee of Senate Finance and as chairman of the Finance Subcommittee on Natural Resources.

Working to improve the quality of life for the citizens of the state is a hallmark of Senator McGill's life. He is presently chairman of the North Eastern Strategic Alliance (NESA), a regional economic development organization that serves a nine-county region in the northeast corner of South Carolina. NESA's primary objective is to enhance the quality of life for residents of the region by creating additional jobs and capital investment within the existing industry base, recruiting new companies and expanding tourism-related development.

He also serves on the board of directors of the Waccamaw Regional Planning and Development Council, and is a past chairman of the council's board of directors and its Industrial Revolving Loan Committee. The agency serves county governments, municipalities and citizens of Georgetown, Horry and Williamsburg counties, offering a wide variety of planning, economic development and social services to aid in the orderly growth and development of the area.

Over the years, numerous groups have recognized Senator McGill for his dedicated service to our state. Five associations and organizations have named him Legislator of the Year and three as Senator of the Year. Other awards include the S.C. Association of Counties Distinguished Service Award, Clemson PSA Service Award, S.C. Advocate for Agriculture Award, Primary Health Care Association Legislative Award and S.C. Counseling Association Legislative Award.

Senator McGill's commitment to higher education in South Carolina extends to all of the state's colleges and universities. In particular, his support of Clemson's public service and agriculture mission has enabled the University to better serve the citizens of our state.

Having attended both The Citadel and Francis Marion College, Senator McGill has been the recipient of honorary degrees from those institutions as well as Coastal Carolina University and the Medical University of South Carolina, for which he has served on the board of visitors.

When not attending to his duties in the Senate, he is a real estate broker and residential homebuilder in his hometown of Kingstree where he got his first taste of politics as a member of the Kingstree Town Council and later as mayor pro tempore and as mayor.

Clemson University holds Senator McGill's achievements and service to the people of South Carolina in the highest regard. It is a great privilege to present today the honorary degree, Doctorate of Humanities, to Senator John Yancey McGill.

THE ACADEMIC PROCESSION

The academic procession is composed of the faculty, staff, officers, trustees and most honored guests of the University. Faculty enter by college and each college is preceded by its marshal, a senior faculty member, with the college baton, described under University Regalia. The college banners are placed on the stage. Each banner is a combination of colors that declare the disciplines taught in that college. These colors, which were established by the American Council on Education, are listed below.

Collegiate faculty follow their marshal in order of academic rank wearing academic costumes of medieval origin. Those who have received their degrees from institutions outside the United States wear costumes specified by the awarding institutions. Academic costumes of faculty whose degrees are from institutions in the United States are specified by a uniform code maintained by the American Council on Education. Caps are black and are usually mortar boards with tassels. Doctors of philosophy wear gold tassels usually of metallic thread; other degrees wear black or discipline colors.

The bachelor's gown is simple and black with long, pointed sleeves. Masters' gowns, also black, are longer than bachelors' gowns. Older gowns have sleeves that terminate at the elbow, while those since 1960 have sleeves extended to the wrist. Doctors' gowns are full, with bell-like sleeves. The front is marked by velvet panels and the sleeves are marked by three velvet bars. While most gowns are black with black velvet, one variation is to replace black velvet with velvet in the discipline color. A second variation is a colored gown usually of the university's colors.

All hoods specify the level of degree, the type of discipline studied and the awarding institution. First, degree level is signified by the size of the hood with bachelors' the smallest, masters' larger and doctors' quite large and of a different shape. Clemson does not award hoods to bachelors. The width of the velvet trim also conveys the degree. Secondly, the degree is indicated by the color of the trim edging the hood to form the throat over the gown. The most frequently seen is dark blue, which designates the Doctor of Philosophy (Ph.D.) degree. Finally, the color of the hood's lining specifies the awarding institution. The colors are displayed in combinations that are drawn from heraldry. Notice that the Clemson University hood is lined with purple through which is an orange chevron (a "V"). Although many combinations are duplicated by dozens of institutions, Clemson is presently the only institution with that registered combination.

The officers, trustees and honored guests wear academic, ecclesiastical or military regalia as set forth by their professions. The president of Clemson University wears a purple gown with four velvet bars piped in gold and the university seal embroidered on the panels. Each trustee wears a similar gown with three velvet bars piped in gold for doctorates and an embroidered palmetto tree on each sleeve for those who do not hold doctorates. Hoods are either from Clemson or from the awarding school. They are preceded by the university marshal. Clad in a gown of office in gold and purple, the marshal wears no hood and bears the university mace. At the ceremony's close, the faculty do not exit as a part of the recessional but are dismissed, along with students and guests, when the marshal leaves the coliseum.

COLLEGE	COLORS	DISCIPLINE
Agriculture, Forestry and Life Sciences	Maize Brown Golden Yellow	Agriculture Forestry Life Sciences
Architecture, Arts and Humanities	Lilac Brown White Dark Blue	Architecture Arts Humanities Philosophy
Business and Behavioral Science	Drab Copper Peacock Blue Cream	Accounting and Business Economics Public Administration Social Sciences
Engineering and Science	Orange Golden Yellow	Engineering Science
Health, Education and Human Development	Light Blue Apricot Cream	Education Nursing Social Sciences
Library	Lemon Yellow	Library
Staff	Purple and Orange	Academic Support
Faculty Senate	Purple and White	Instruction

CANDIDATES FOR THE DOCTOR'S DEGREE

Karen J L Burg, Interim Dean, Graduate School

COLLEGE OF AGRICULTURE, FORESTRY AND LIFE SCIENCES

DOCTOR OF PHILOSOPHY

Animal and Veterinary Sciences

Taber Ashley Burns.....Marietta, GA
B.S., Kansas State University; M.S., University of Georgia
Dissertation: Fatty Acids and Lipogenesis in Ruminant Adipocytes
Advisor: Dr. S Duckett

Biochemistry and Molecular Biology

Deepti SharmaLucknow, India
B.S., Chaudhary Charan Singh University; M.S., Jawaharlal Nehru Technical University
Dissertation: Characterization of Extrinsic and Intrinsic Factors Governing the Activity of the Two Human Recombinases, Dmc1 and Rad51
Advisor: Dr. M Sehorn

Environmental Toxicology

Joseph Hopkin Bisesi, Jr.Glen Burnie, MD
B.S., M.S., Clemson University
Dissertation: Impacts of Psychotropic Pharmaceuticals on Hybrid Striped Bass: Altered Predation Behavior as a Function of Changes in Brain Chemistry
Advisor: Dr. S Klaine

Aaron James EdgingtonForks, WA
B.S., Western Washington University
Dissertation: Toxicity of Carbon Nanotubes to Daphnia Magna
Advisor: Dr. S Klaine

Gia-Ming HongChunghua, Taiwan
B.S., M.S., Feng Chia University
Dissertation: Arsenic Represses Myogenesis and Neurogenesis through Epigenetic Mechanisms, Repressed Transcription Factors, and Altered Wnt Signaling Pathway
Advisor: Dr. L Bain

Brandon Casey SedaCarrollton, GA
B.S., Kennesaw State University
Dissertation: The Uptake and Effects of Three Distinct Nanoparticles to Daphnia Magna and Danio Rerio
Advisor: Dr. S Klaine

Forest Resources

Jamie Allen DubersteinHarshaw, WI
B.S., University of Wisconsin; M.S., University of Florida
Dissertation: Composition and Ecophysiological Proficiency of Tidal Freshwater Forested Wetlands: Investigating Basin, Landscape and Microtopographic Scales
Advisor: Dr. W Conner

Forest Resources (continued)

Huifeng HuShanxi, China
B.S., Peking University; M.S., Chinese Academy of Sciences
Dissertation: Restoring Longleaf Pine (*Pinus Palustris*) and Understory Vegetation within Loblolly
Pine (*P. Taeda*) Forests on North Carolina
Advisor: Dr. G Wang

Genetics

Man ZhouCentral, SC
B.S., China Agricultural University
Dissertation: Genetic Engineering of Turfgrass with Enhanced Stress Tolerance and Development
of Turfgrass as Bioreactors
Advisor: Dr. H Luo

Microbiology

Marion Warren Shepherd, Jr. Beaufort, SC
B.S., M.S., Clemson University
Dissertation: Optimization of the Composting Process to Inactivate Pathogens in Minimally
Maintained Dairy Manure-Based Compost Heaps
Advisor: Dr. X Jiang

Randhir Singh.....Kurukshetra, India
B.S., M.S., Chaudhary Charan Singh Haryana Agricultural University
Dissertation: Thermal Inactivation of Stress-Adapted Pathogens during Composting
Advisor: Dr. X Jiang

Lining ZhuChangsha, China
B.E., Xiangtan University
Dissertation: An Il-12/Shh-C Domain Fusion Protein Based Il-12 Autocrine Loop for Sustained
Nk Cell Activation
Advisor: Dr. X Yu

Plant and Environmental Sciences

Brian Keith Ward..... Goose Creek, SC
B.S., Auburn University
Dissertation: Development of Novel Organic Nitrogen Nutrient Solutions with Unique Bioreactors
for Precision Nutrient Fertigation
Advisor: Dr. R Dufault

Wildlife and Fisheries Biology

Stephen Gregory Jones Greenwood, SC
B.S., Wofford University; M.S., Clemson University
Dissertation: Spatio-Temporal Modeling of Arthropod-Borne Zoonotic Diseases: A Proposed
Methodology to Enhance Macro-Scale Analyses
Advisor: Dr. W Conner

COLLEGE OF ARCHITECTURE, ARTS AND HUMANITIES

DOCTOR OF PHILOSOPHY

Rhetorics, Communication and Information Design

Dev Kumar Bose Rancho Palos Verdes, CA
B.A., M.A., California State University
Communication Crossroads: Assertiveness Pedagogy for College Writers with Attention-Deficit/
Hyperactivity Disorder
Advisor: Dr. B Denham

Xiaoli Li Xian, China
M.A., Bowling Green State University
Dissertation: From Globalization to Glocalization: What the Impacts of Globalization on Chinese
Document Design Tell Us about International Professional Communication
Advisor: Dr. S Williams

COLLEGE OF BUSINESS AND BEHAVIORAL SCIENCE

DOCTOR OF PHILOSOPHY

Economics

Sherry Meador Jensen Herndon, KY
B.S., Centre College of Kentucky
Dissertation: An Examination of Treatment Effects with a Focus on State Merit Aid Programs
Advisor: Dr. T Mroz

Liudmila Leonidovna Kashcheeva Chelyabinsk, Russia
B.A., South Ural State University
Dissertation: The Role of Intellectual Property Rights in the Relation between Foreign Direct
Investment and Growth
Advisor: Dr. K Tsui

Management

Uzay Damali Ankara, Turkey
B.S., Middle East Technical University; M.S., Clemson University
Dissertation: Essays on Customer Training and Education in Service Design
Advisors: Dr. L Fredendall and Dr. J Miller

Jennifer Elizabeth Gerow Greer, SC
B.S., M.B.A., Clemson University
Dissertation: IT-Business Strategic Alignment: Essays Examining Types of Alignment and their
Relationship with Firm Performance
Advisors: Dr. V Grover and Dr. J Thatcher

COLLEGE OF ENGINEERING AND SCIENCE

DOCTOR OF PHILOSOPHY

Bioengineering

- Sandra Beth DeitchGettysburg, PA
B.S., Bucknell University; M.S., Clemson University
Dissertation: Characterizing Mechanical Heterogeneity in Cardiovascular Cells
Advisor: Dr. D Dean
- Randolph Edward Hutchison.....Greenville, SC
B.S., Virginia Polytechnic Institute; M.S., Clemson University
Dissertation: Assessment of Knowledge Transfer in the Context of Biomechanics
Advisor: Dr. L Benson
- Zhen Ma.....Tianjin, China
B.S., M.S., Tianjin University
Dissertation: Electrical Coupling between Micropatterned Cardiomyocytes and Stem Cells
Advisor: Dr. Z Gao
- Jeremy John Mercuri.....Avon, CT
B.S., Drexel University; M.S., Clemson University
Dissertation: The Development and Characterization of Novel Biomaterials for Regenerating the Human Intervertebral Disc
Advisor: Dr. D Simionescu
- Nadeem Ahmad VelloreChennai, India
B.T., Bharathidasan University
Dissertation: Interfacial Force Field Parameterization Using the Dual Force Field Charmm Program for the Accurate Simulation of Peptide-Surface Interaction
Advisor: Dr. R Latour
- Rui WangTianmen, China
B.E., Northwestern Polytechnical University; M.S., Tsinghua University
Dissertation: Development of Fourier Domain Optical Coherence Tomography
Advisor: Dr. Z Gao
- Bradley Huegh Winn.....Simpsonville, SC
B.S., M.S., Clemson University
Dissertation: Dynamic In Vitro Modeling of a Stented Blood Vessel to Evaluate Smooth Muscle Cell Response to Stent Material Selection and Surface Coating
Advisor: Dr. M LaBerge
- Scott Tyler WoodMadras, OR
B.S., Texas Technical University; M.S., Clemson University
Dissertation: Computational Approaches to Understand Phenotypic Structure and Constitutive Mechanics Relationships of Single Cells
Advisor: Dr. D Dean

Biosystems Engineering

Yen-Hui ChenTaipei, Taiwan
B.S., National Ilan University; M.S., Clemson University
Dissertation: Microalgae *Chlorella Protothecoides* Fermentation and Supercritical Carbon Dioxide Processing for Biofuel Production
Advisor: Dr. T Walker

Chemical Engineering

Sourabh Uday Kulkarni.....Maharashtra, India
B.E., University of Mumbai
Dissertation: Quantitative Analysis and Structural Characterization of Carbonaceous Pitches
Advisor: Dr. M Thies

Ha Hai NguyenHo Chi Minh City, Vietnam
B.E., M.S., Ho Chi Minh City University of Technology
Dissertation: Modeling and Synthesis of Functionalized meta-Poly (Phenylene Ethynylene) Helical Structures
Advisor: Dr. D Bruce

Halil Levent TekinalpAntalya, Turkey
B.S., Middle East Technical University
Dissertation: Pitch-Based Activated Carbon Fibers: The Effect of Precursor Composition on Pore Structure
Advisor: Dr. M Thies

Chemistry

Jennifer L GrimlandLake Mary, FL
B.S., University of Central Florida
Dissertation: Single Particle and Ensemble Spectroscopy of Conjugated Polymer Nanoparticles and their Development for Photodynamic Therapy
Advisor: Dr. J McNeill

Sunil Kumar.....Clemson, SC
M.S., Indian Institute of Technology
Dissertation: Targeting DNA and RNA Using Dimeric Aminoglycoside Conjugates
Advisor: Dr. D Arya

Jung Min Oh.....Seoul, Korea
B.S., M.S., East Tennessee State University
Dissertation: Electrolyte Incorporation into Composite Electrodes for Proton- Exchange Membrane Fuel Cells and Lithium- Ion Batteries
Advisor: Dr. S Creager

Nihar RanjanBihar, India
B.S., University of Delhi
Dissertation: Molecular Recognition of Duplex and Higher Order Nucleic Acids Using Neomycin- Hoechst 33258 Conjugates
Advisor: Dr. D Arya

Hsiao Chuan WangTaichung, Taiwan
B.S., M.S., Tunghai University
Dissertation: DNA Damage Prevention by Polyphenol Antioxidants: Comparing Reactive Oxygen Species Scavenging and Metal Binding Mechanisms In Vitro and in *E. Coli*
Advisor: Dr. J Brumaghim

Chemistry (continued)

Yueli Zheng Xiajin, China
B.S., Qufu Norman University; M.S., University of Science and Technology
Dissertation: Modification and Characterization of Fluorescent Conjugated Polymer Nanoparticles
for Single Molecule Detection
Advisor: Dr. J McNeill

Civil Engineering

Mijanur Rahaman Chowdhury Chittagong, Bangladesh
B.S., Bangladesh University of English and Technology; M.S., Kwangju University
Dissertation: Fluid Mud Underflows in Coastal Dredge Disposal
Advisor: Dr. F Testik

Sara Familian Tehran, Iran
B.S., University of Science and Technology of Iran; M.S., Islamic Azad University
Dissertation: Analyzing of Tort Claims and Lawsuits against SCDOT through Hierarchical Tree
Based Regression (Htbr) Method
Advisor: Dr. J Ogle

Zhe Luo Liaoning, China
B.E., M.S., Tonji University; M.S., Clemson University
Dissertation: Probabilistic Approaches to Stability and Deformation Problems in Braced Excavation
Advisor: Dr. C Juang

William Rogers Summerville, SC
B.S., M.S., Clemson University
Dissertation: Influence of Warm Mix Modifiers upon High Rap Asphalt Mixes
Advisor: Dr. B Putman

Computer Engineering

Mohammad Ashraf Uddin Bhuiyan Clemson, SC
B.S., M.S., Bangladesh University of Engineering and Technology
Dissertation: Performance Analysis and Fitness of GPGPU and Multicore Architectures for
Scientific Applications
Advisor: Dr. M Smith

Kenneth Lee Rice Clinton, SC
B.S., M.S., Clemson University
Dissertation: Accelerating Pattern Recognition Algorithms on Parallel Computing Architectures
Advisor: Dr. J Gowdy

Computer Science

Edward Baker Duffy III Pendleton, SC
B.S., Clemson University
Dissertation: The Design and Implementation of an Abstract Semantic Graph for Statement-Level
Dynamic Analysis of C++ Applications
Advisor: Dr. B Malloy

Heather Keown Harton Liberty, SC
B.S., Appalachian State University
Dissertation: Mechanical and Modular Verification Condition Generation for Object Based
Software
Advisor: Dr. M Sitaraman

Environmental Engineering and Science

Peng Luo Jiangsu, China
B.S., Xuzhou Normal University; M.S., Chinese Academy of Science
Dissertation: Time-Interval Analysis for Radiation Monitoring
Advisor: Dr. T Devol

Materials Science and Engineering

Tiffany Lindstrom James.....Clemson, SC
B.S., University of Arizona; M.S., Clemson University
Dissertation: Spectral Engineering of Optical Fiber through Active Nanoparticle Doping
Advisor: Dr. J Ballato

Cody Jonathan Reynolds.....Clemson, SC
B.A., Whitman College
Dissertation: Antimicrobial-Delivering Poly(ethylene terephthalate) and Poly(lactic acid)
Bi-Component Fibers for use in Prenatal Cervical Cerclages
Advisor: Dr. P Brown

Vijaya SaEagan, MN
B.Tech., University of Calcutta; M.Tech., Indian Institute of Technology Delhi
Dissertation: Highly Conductive Carbon Nanotube Fibers for Biomedical Applications
Advisor: Dr. K Kornev

Mathematical Sciences

Justin Daniel Peachey.....Central, SC
B.S., Grove City College; M.S., Clemson University
Dissertation: Bases and Applications of Riemann-Roch Spaces
Advisor: Dr. G Matthews

Mahmoud Rezaei.....Shiraz, Iran
B.S., M.S., Sharif University of Technology; M.S., Clemson University
Dissertation: Inference in Queues
Advisor: Dr. P Kiessler

Mechanical Engineering

Ali Issam AlahmerClemson, SC
B.S., Mutah University; M.S., University of Jordan
Dissertation: Effect of Relative Humidity and Temperature Control on In-Cabin Thermal Comfort
State
Advisor: Dr. M Omar

Hoseinali Borhan.....Isfahan, Iran
B.S., University of Tehran; M.S., Sharif University of Technology
Dissertation: Optimization-Based Power Management of Hybrid Power Systems with Applications
in Advanced Hybrid Electric Vehicles and Wind Farms with Battery Storage
Advisor: Dr. A Vahidi

Benjamin William CaldwellLexington, SC
B.S., M.S., Clemson University
Dissertation: Evaluating the Use of Functional Representations for Ideation in Conceptual Design
Advisor: Dr. G Mocko

Mechanical Engineering (continued)

David Joseph Ewing.....Anderson, SC
B.S., Pensacola Christian College
Dissertation: Application of Alternative Cooling Techniques Using Phase Change Materials and Nanofluids
Advisor: Dr. L Ma

Chiradeep SenCalcutta, India
M.S., Clemson University
Dissertation: A Formal Representation of Mechanical Functions to Support Physics-Based Computational Reasoning in Early Mechanical Design
Advisor: Dr. J Summers

Prabhu ShankarSeneca, SC
B.E., Bharathiar University
Dissertation: Development of a Design Method to Reduce Change Propagation Effects
Advisor: Dr. J Summers

Ramaswami Subrahmanian.....Chennai, India
B.S., Indian Institute of Technology; M.S., Clemson University
Dissertation: Applying Chaotic Advection to Rheology: An in Situ Structuring Rheometer
Advisor: Dr. D Zumbrunnen

Joshua Aaron Tarbutton.....Lawrenceville, GA
B.S., Georgia Institute of Technology; M.S., Clemson University
Dissertation: Automated Digital Machining for Parallel Processors
Advisors: Dr. T Kurfess and Dr. T Tucker

Jun Yin.....Ningbo, China
B.S., Peking University; M.S., Chinese Academy of Sciences
Dissertation: Fabrication of Grooved Hollow Fiber Membrane for Nerve Regeneration: Process Modeling and Performance Evaluation
Advisor: Dr. Y Huang

Physics

Doyl Edward Dickel.....Clemson, SC
B.S., California Institute of Technology
Dissertation: Electrical Detection of Mechanical Resonance in Nanotubes and Semiconducting Nanowires
Advisor: Dr. A Rao

Polymer and Fiber Science

Kyle Garrod Gipson.....Simpsonville, SC
B.S., Wofford College; M.S., Institute of Textile Technology
Dissertation: Light-Emitting Nanocomposites and Novel Amorphous Polymers for Optical Applications
Advisors: Dr. P Brown and Dr. J Ballato

COLLEGE OF HEALTH, EDUCATION AND HUMAN DEVELOPMENT

DOCTOR OF PHILOSOPHY

Curriculum and Instruction

Robert Todd Bruce Athens, TN
B.A., M.S., University of Tennessee
Dissertation: Avoiding Engagement with "Invisibles" by Teaching Literacy Instead of Literature:
Existential Issues in English Education
Advisor: Dr. B Bailey

Educational Leadership

Margaret Simpson Bright..... Seneca, SC
B.S., M.Ed., University of Georgia
Dissertation: An Examination of Adaptive Leadership Processes Using Action Research
Advisor: Dr. R Marion

Christopher Howard Porter..... Anderson, SC
B.A., Lander University; M.A., M.Ed., University of South Carolina
Dissertation: An Examination of Variables Which Influence High School Students to Enroll in an
Undergraduate Engineering or Physical Science Major
Advisor: Dr. J Satterfield

Bonnie Jean Smith..... Greenville, SC
B.A., Furman University; M.S., University of South Carolina
Dissertation: Community College Faculty Job Satisfaction: A Network Perspective
Advisor: Dr. R Marion

Parks, Recreation and Tourism Management

Susan Lynn Vezeau Charleston, SC
B.S., College of Charleston
Dissertation: Stewardship 101: An Evaluation of the Great Smoky Mountain National Park Junior
Ranger Program
Advisor: Dr. R Powell

GRADUATE SCHOOL

DOCTOR OF PHILOSOPHY

International Family and Community Studies

Jill Duncan McLeigh..... Columbia, MD
B.A., University of North Carolina; M.S., Carnegie-Mellon University
Dissertation: Does Faith Matter? A Comparison of Faith-Based and Secular International
Nongovernmental Organizations Engaged in Humanitarian Assistance
Advisor: Dr. G Melton

Arelis Moore de Peralta Santo Domingo, Dominican Republic
M.D., Institute Technology of Santo Domingo; M.P.H., University of Santo Domingo; M.Ed.,
The Ibero American University
Dissertation: Health Beliefs and Socio-Cultural Factors that Predict Cervical Cancer Screening
Behaviors among Hispanic Women in Seven Cities in the Upstate of South Carolina
Advisor: Dr. B Holaday

International Family and Community Studies (continued)

Natallia Sergeevna Sianko Smolensk, Russia
B.A., Minsk State Linguistic University
Dissertation: Democratic Orientations among Adolescents: Trends in Emerging and Mature Democracies
Advisor: Dr. R Kimbrough-Melton

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B.S., Salisbury State University
Dissertation: Exit, Voice and Human Security: Serbs in Kosovo after Declaration of Independence
Advisor: Dr. G Melton

Policy Studies

Matias Gabriel Nardi Buenos Aires, Argentina
B.S., University of Buenos Aires; M.S., Clemson University
Dissertation: The Political Economy of Agriculture and Food Policies in Argentina during the XXI Century: An Empirical Estimation of the Electoral Response at the National, Provincial and Local Level, and its Conceptual Relationship with Lobbying, Advocacy and Demonstrations
Advisor: Dr. C Carpio

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B.S., Clemson University; M.A., Kent State University
Dissertation: Accelerating Innovation via Industry-Scale Open Innovation Networks: A Case Study in the US Automotive Industry
Advisor: Dr. D Bodde

Kulwadee Wiwatsawatdinon Bangkok, Thailand
B.S., Ramkhamhaeng University; M.S., University of Pittsburgh
Dissertation: Food Safety and Competitiveness: Comparative Study of Fruits and Vegetables Firms in Philippines, Vietnam and Thailand
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